

Docket No.: PF-0622 USN
USSN: 09/831,088
Exhibit. No.A

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- ☐ PF-0622-USN_SEQ_ID_NO:9
☐ gi_4165017_ACS3_Minekura_et_al.

CLUSTAL W (1.7) Multiple Sequence Alignments

Sequence format is Pearson

Sequence 1: PF-0622-USN_SEQ_ID_NO_9 4027 bp

Sequence 2: gi_4165017_ACS3_Minekura_et_al 2905 bp

Start of Pairwise alignments

Aligning...

Sequences (1:2) Aligned. Score: 99

Start of Multiple Alignment

There are 1 groups

Aligning...

Group 1: Sequences: 2 Score:54880

Alignment Score 19234

CLUSTAL-Alignment file created [baaFPaqZw.aln]

CLUSTAL W (1.7) multiple sequence alignment

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | GCGCCGGGCTGCGACACTGCAGTTGTCTACGCGCCGGGGCCGGGACGAG |
| gi_4165017_ACS3_Minekura_et_al | ----- |

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | GAGGCGTTGGACGGGGTCGCATACGTTTCGTCCTCGCATTGCGGCCCCG |
| gi_4165017_ACS3_Minekura_et_al | ----- |

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | ACAGCTGCGCCAGGATCCCCGGGCGGCGGCGGGGCGTGAACGCTCTGG |
| gi_4165017_ACS3_Minekura_et_al | ----- |

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | GGCTCAGCCAGGCCTGCGCGGGCCCGATGCCGGAGGAACCCGGACTCCGG |
| gi_4165017_ACS3_Minekura_et_al | ----- |

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | CGTAGCGGTTTTGACACAAGGGCGCATATCTTCAAAGCACCTAGTACCTC |
| gi_4165017_ACS3_Minekura_et_al | ----- |

| | |
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| PF-0622-USN_SEQ_ID_NO_9 | CTACCATTGTCAACTGATACAGAATTCGTTGTTGGGAAGGACTGGGGAAA |
| gi_4165017_ACS3_Minekura_et_al | -----GAATTCGTTGTTGGGAAGGACTGGGGAAA |

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PF-0622-USN_SEQ_ID_NO_9      CAGCTGTAACATTTGCCACCCTCAGAAGCTGCTGGTCCTGTGTACACCA
gi_4165017_ACS3_Minekura_et_al CAGCTGTAACATTTGCCACCCTCAGAAGCTGCTGGTCCTGTGTACACCA
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PF-0622-USN_SEQ_ID_NO_9      CCTTAGCCTCTTGATCGAGGAAGATTCTCGCTGAAGTCTGTTAATTCTAC
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PF-0622-USN_SEQ_ID_NO_9      AGCTAAAACATACCATCAACCCTATTCTTTTATATTTTATACATTTTCTA
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PF-0622-USN_SEQ_ID_NO_9      AACCTGATTCTGCATACAGATCTGTTAATAGTTTGGATGGTTTGGCTTCA
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PF-0622-USN_SEQ_ID_NO_9      GTATTATACCCTGGATGTGATACTTTAGATAAAGTTTATACATATGCAAA
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PF-0622-USN_SEQ_ID_NO_9      AAACAAATTTAAGAACAAAAGACTCTTGGGAACACGTGAAGTTTAAATG
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PF-0622-USN_SEQ_ID_NO_9      GGACAGTATAATTGGCTTTCCTATGAAGATGTCTTGTTCGAGCCTTTAA
gi_4165017_ACS3_Minekura_et_al GGACAGTATAATTGGCTTTCCTATGAAGATGTCTTGTTCGAGCCTTTAA
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PF-0622-USN_SEQ_ID_NO_9      TTTTGGAAATGGATTACAGATGTTGGGTCAGAAACCAAAGACCAACATCG
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PF-0622-USN_SEQ_ID_NO_9      CCATCTTCTGTGAGACCAGGGCCGAGTGGATGATAGCTGCACAGGCGTGT
gi_4165017_ACS3_Minekura_et_al CCATCTTCTGTGAGACCAGGGCCGAGTGGATGATAGCTGCACAGGCGTGT
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PF-0622-USN_SEQ_ID_NO_9      TTTATGTATAATTTTCAGCTTGTTACATTATATGCCACTCTAGGAGGTCC
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PF-0622-USN_SEQ_ID_NO_9      AGCCATTGTTTCATGCATTAAATGAAACAGAGGTGACCAACATCATTACTA
gi_4165017_ACS3_Minekura_et_al AGCCATTGTTTCATGCATTAAATGAAACAGAGGTGACCAACATCATTACTA
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PF-0622-USN_SEQ_ID_NO_9      GTAAAGAACTCTTACAAACAAAGTTGAAGGATATAGTTTCTTTGGTCCCA
gi_4165017_ACS3_Minekura_et_al GTAAAGAACTCTTACAAACAAAGTTGAAGGATATAGTTTCTTTGGTCCCA
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PF-0622-USN_SEQ_ID_NO_9      CGCCTGCGGCACATCATCACTGTTGATGGAAAGCCACCGACCTGGTCCGA
gi_4165017_ACS3_Minekura_et_al CGCCTGCGGCACATCATCACTGTTGATGGAAAGCCACCGACCTGGTCCGA
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PF-0622-USN_SEQ_ID_NO_9      GTTCCCCAAGGGCATCATTTGTGCATACCATGGCTGCAGTGGAGGCCCTGG
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PF-0622-USN_SEQ_ID_NO_9      GAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCATTTGCCCTCA
gi_4165017_ACS3_Minekura_et_al GAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCATTTGCCCTCA
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PF-0622-USN_SEQ_ID_NO_9      GATATTGCAGTAATCATGTACACAAGTGGATCCACAGGACTTCCAAAGGG
gi_4165017_ACS3_Minekura_et_al GATATTGCAGTAATCATGTACACAAGTGGATCCACAGGACTTCCAAAGGG
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PF-0622-USN_SEQ_ID_NO_9      AGTCATGATCTCACATAGTAACATTATTGCTGGTATAACTGGGATGGCAG
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PF-0622-USN_SEQ_ID_NO_9      AAAGGATTCCAGAAGTCTAGGAGAGGAAGATGTCTACATTGGATATTTGCCT
gi_4165017_ACS3_Minekura_et_al AAAGGATTCCAGAAGTCTAGGAGAGGAAGATGTCTACATTGGATATTTGCCT
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PF-0622-USN_SEQ_ID_NO_9      CTGGCCCATGTTCTAGAAATTAAGTGCTGAGCTTGCTGTCTTTCTCACGG
gi_4165017_ACS3_Minekura_et_al CTGGCCCATGTTCTAGAAATTAAGTGCTGAGCTTGCTGTCTTTCTCACGG
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PF-0622-USN_SEQ_ID_NO_9      ATGCCGCATTGGTTACTCTTCCACCACAGACTTTAGCAGATCAGTCTTCAA
gi_4165017_ACS3_Minekura_et_al ATGCCGCATTGGTTACTCTTCCACCACAGACTTTAGCAGATCAGTCTTCAA
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PF-0622-USN_SEQ_ID_NO_9      AAATTAAAAAAGGAAGCAAAGGGGATACATCCATGTTGAAACCAACACTG
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PF-0622-USN_SEQ_ID_NO_9      ATGGCAGCAGTTCGGAAATCATGGATCGGATCTACAAAAATGTCATGAA
gi_4165017_ACS3_Minekura_et_al ATGGCAGCAGTTCGGAAATCATGGATCGGATCTACAAAAATGTCATGAA
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PF-0622-USN_SEQ_ID_NO_9      TAAAGTCAGTGAAATGAGTAGTTTTCAACGTAATCTGTTTATTCTGGCCT
gi_4165017_ACS3_Minekura_et_al TAAAGTCAGTGAAATGAGTAGTTTTCAACGTAATCTGTTTATTCTGGCCT
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PF-0622-USN_SEQ_ID_NO_9      ATAATTACAAAATGGAACAGATTTCAAAGGACGTAATACTCCACTGTGC
gi_4165017_ACS3_Minekura_et_al ATAATTACAAAATGGAACAGATTTCAAAGGACGTAATACTCCACTGTGC
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PF-0622-USN_SEQ_ID_NO_9      GACAGCTTTGTTTTCCGAAAGTTCGAAGCTTGCTAGGGGGAAATATTCCG
gi_4165017_ACS3_Minekura_et_al GACAGCTTTGTTTTCCGAAAGTTCGAAGCTTGCTAGGGGGAAATATTCCG
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PF-0622-USN_SEQ_ID_NO_9      TCTCCTGTTGTGTGGTGGCGCTCCACTTTCTGCAACCACGCAGCGATTCA
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PF-0622-USN_SEQ_ID_NO_9      TCTGCTGGGGCTGGAACAATTTCCGAAGTGTTGGGACTACAATACTGGCAG
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PF-0622-USN_SEQ_ID_NO_9      ATTGGGGGCCAAAGTGTGACAATGGGGTACTACAAAAATGAAGCAAAAC
gi_4165017_ACS3_Minekura_et_al ATTGGGGGCCAAAGTGTGACAATGGGGTACTACAAAAATGAAGCAAAAC
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PF-0622-USN_SEQ_ID_NO_9      AAAAGCTGATTTCTTTGAAGATGAAAATGGACAAAGGTGGCTCTGTACTG
gi_4165017_ACS3_Minekura_et_al AAAAGCTGATTTCTCTGAAGATGAAAATGGACAAAGGTGGCTCTGTACTG
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PF-0622-USN_SEQ_ID_NO_9      GGGATATTGGAGAGTTTGAACCCGATGGATGCTTAAAGATTATTGATCGT
gi_4165017_ACS3_Minekura_et_al GGGATATTGGAGAGTTTGAACCCGATGGATGCTTAAAGATTATTGATCGT
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PF-0622-USN_SEQ_ID_NO_9      AAAAAGGACCTTGTAAACTACAGGCAGGGGAATATGTTTCTCTTGGGAA
gi_4165017_ACS3_Minekura_et_al AAAAAGGACCTTGTAAACTACAGGCAGGGGAATATGTTTCTCTTGGGAA
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PF-0622-USN_SEQ_ID_NO_9      AGTAGAGGCAGCTTTGAAGAATCTTCCACTAGTAGATAACATTTGTGCAT
gi_4165017_ACS3_Minekura_et_al AGTAGAGGCAGCTTTGAAGAATCTTCCACTAGTAGATAACATTTGTGCAT
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PF-0622-USN_SEQ_ID_NO_9      ATGCAAACAGTTATCATCTTATGTCATTGGATTGTTGTGCCAAATCAA
gi_4165017_ACS3_Minekura_et_al ATGCAAACAGTTATCATCTTATGTCATTGGATTGTTGTGCCAAATCAA
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PF-0622-USN_SEQ_ID_NO_9      AAGGAACTAACTGAACTAGCTCGAAAGAAAGGACTTAAAGGGACTTGGGA
gi_4165017_ACS3_Minekura_et_al AAGGAACTAACTGAACTAGCTCGAAAGAAAGGACTTAAAGGGACTTGGGA
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PF-0622-USN_SEQ_ID_NO_9      CCGAAGCTGCTATTTTCAGCAAGTCTGGAAAAGTTGAAATTCTAGTAAAA
gi_4165017_ACS3_Minekura_et_al CCGAAGCTGCTATTTTCAGCAAGTCTGGAAAAGTTGAAATTCCAGTAAAA
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gi_4165017_ACS3_Minekura_et_al ATTCGTTTGAGTCCTGAACCGTGGACCCCTGAACTGGTCTGGTGACAGA
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PF-0622-USN_SEQ_ID_NO_9      TGCCTTCAAGCTGAAACGCAAAGAGCTTAAACACATTACCAGGCGGACA
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gi_4165017_ACS3_Minekura_et_al TTGAGCGAATGTATGGAAGAAAATAATTATTCTCTCTGGCATCAGTTTG
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PF-0622-USN_SEQ_ID_NO_9      CTACAGTGAGCTCAGATCAAATAGGAAAATACTTGAAATGCATGTCTCAA
gi_4165017_ACS3_Minekura_et_al CTACAGTGAGCTCAGATCAAATAGGAAAATACTTGAAATGCATGTCTCAA
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gi_4165017_ACS3_Minekura_et_al GCTGCAAGGCAAACCTCATTCCTCATATTAACTATTACTTCTCATGACG
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PF-0622-USN_SEQ_ID_NO_9      TCACCATTTTAACTGACAGGATTAGTAAACATTAAGACAGCAAACCTTG
gi_4165017_ACS3_Minekura_et_al TCACCATTTTAACTGACAGGATTAGTAAACATTAAGACAGCAAACCTTG
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PF-0622-USN_SEQ_ID_NO_9      TGTCTGTCTCTTCTTTCATTTTCCCGCCACCAACTTACTTTACCACCTA
gi_4165017_ACS3_Minekura_et_al TGTCTGTCTCTTCTTTCATTTTCCCGCCACCAACTTACTTTACCACCTA
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PF-0622-USN_SEQ_ID_NO_9      TGAAGTGTACTTGTGAGTATGAGAATTTTCTGAATCATATTGGGGAAGCA
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PF-0622-USN_SEQ_ID_NO_9      GTGATTTTAAAACCTCAAGTTTTTAAACATGATTATATGTTCTGTATAA
gi_4165017_ACS3_Minekura_et_al GTGATTTTAAAACCTCAAGTTTTTAAACATGATTATATGTTCTGTATAA
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PF-0622-USN_SEQ_ID_NO_9      TGTTTCAGTTTGTAACTTTTTAAAAGTTTGGATGTATAGAGGGATAAATAG
gi_4165017_ACS3_Minekura_et_al TGTTTCAGTTTGTAACTTTTTAAAAGTTTGGATGTATAGAGGGATAAATAG
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PF-0622-USN_SEQ_ID_NO_9      GAAATATAAGAATTGGTTATTTGGGGGCTTTTTTACTTACTGTATTTAAA
gi_4165017_ACS3_Minekura_et_al GAAATATAAGAATTGGTTATTTGGGGGCTTTTTTACTTACTGTATTTAAA
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PF-0622-USN_SEQ_ID_NO_9      CAAATCATTGTTGAACAAAAGATTTGTTGCTGTGTAATTATTGTCTTGTA
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PF-0622-USN_SEQ_ID_NO_9      TGCATTTGAGAGAAATAAATATACCCATACTTATGTTTTAAGAAGTTGAG
gi_4165017_ACS3_Minekura_et_al TGCATTTGAGAGAAATAAATATACCCATACTTATGTTTTAAGAAGTTGAG
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PF-0622-USN_SEQ_ID_NO_9      ATCTTGTTGAATATATGCCTGTCAGTGTCTTCTTATATATTTATTTTTA
gi_4165017_ACS3_Minekura_et_al ATCTTGTTGAAAAA-----
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PF-0622-USN_SEQ_ID_NO_9      TTAGAAAAAATGAAGTTTGGTTGGTGATGCATGAAACAAAATAGCAAGAG
gi_4165017_ACS3_Minekura_et_al --AAAAA-----
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PF-0622-USN_SEQ_ID_NO_9      AGGGTTATAGTTTAATAGTAAGGGAGATAACACAGCATGTGTAGCACCAG
gi_4165017_ACS3_Minekura_et_al -----

PF-0622-USN_SEQ_ID_NO_9      TTGATAATTGGTCTCTAGTAGCTTACTGTCAAAATGTTCAATGAAGTCTT
gi_4165017_ACS3_Minekura_et_al -----

PF-0622-USN_SEQ_ID_NO_9      CTGTTTCATCTGTTGAAACTAGGAAAATACCCAACTTAAATGGAAGAATT
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gi_4165017_ACS3_Minekura_et_al -----

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gi_4165017_ACS3_Minekura_et_al -----

PF-0622-USN_SEQ_ID_NO_9      AATTAGTCATGGAAAATTATCTATCCCAAAGTCTCCTTTTAGTCTAGAT
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gi_4165017_ACS3_Minekura_et_al -----

PF-0622-USN_SEQ_ID_NO_9      GTGTATGGATGTGTGTGAGTCAGTGGTAGCTTATTTAAAAGCACCTTAT
gi_4165017_ACS3_Minekura_et_al -----

PF-0622-USN_SEQ_ID_NO_9      CCTTCTCCATAACCTTTGTACACTAAAAAATGAAAGAATTTAGAATGT
gi_4165017_ACS3_Minekura_et_al -----
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| PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al | ATTTGATGATAGCATTCTCACTAAGACACATGAGAATTTAACTTTATAAC ----- |
| PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al | CGCGTGAGTTAAGATTTAATTCATAGGTTTTGATGTCATTGTTGAAGTTA ----- |
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| PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al | TATTACTGCTTGTCTGTTGTTATATCTGGATTATCAAAGCAATAGTGCA ----- |
| PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al | CCAATTAAGATGTGCTCAAATCAGGACTTAAATCATAGGCACCACATTTT ----- |
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| PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al | AGGCAAAAATCAAAAAAAAAAAAAAAGG ----- |

Submit sequences to: **Incyte**Genomics